

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval		
Description Work Order Deviation				Disposition					
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐		Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐					
OTHER : ☐									

Work Order ID 131589***131589***

Page 2

Item ID: 647.7303

Accept

N900040100

Setup Start

NS1

Revision ID:

Stop

NS2

Item Name: EC135 Cable Cutters (Removable Provisions Only)

Start Date: 4/17/15

Start Qty: 1.00

1

Cust Item ID:

Required Date: 4/20/15

Req'd Qty: 1.00

1

Customer:

Reference:

Approvals:

Process Plan: _____

Date: _____

Tooling: _____

Date: _____

Run

Start

NR1

QC: _____

Date: _____

SPC (Y/N): _____

Date: _____

Stop

NR2Sequence ID/
Work Center IDOperation
DescriptionSet Up/
Run Hours

Tool ID

Tool #

Plan
CodeAccept
QtyReject
QtyReject
NumberInsp.
Stamp

130

0.00

130

Packaging

Packaging

Memo

0.00

Packaging

Identify and pack for shipping as per PPP 647.7303

Location: *sold*IX
DAS
28
9-89

APR 21 2015

140

QC21- Final Inspection - Work Order Release

0.00

140

QC

Memo

0.00

Quality Control

MCJ 15-04-21MF
15-4-21

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐							
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval				
Description Work Order Deviation				Disposition				Completed By			
Root Cause				FAULT CATEGORY							
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐		No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐		Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐		Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabelled ☐ Fit/Function ☐ Misaligned/off center ☐		Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐	
OTHER : _____											

Picklist Print

Thursday, April 16, 2015 1:41:51 PM

Page 1

Work Order ID: 131589

131589

Parent Item: 647.7303

647 7303

Parent Item Name: EC135 Cable Cutters (Removable Provisions Only)

Start Date: 4/17/15

Required Date: 4/20/15

Start Qty: 1.00

Required Qty: 1.00

Comments: IPP REV:A 12.10.05 NEW ISSUE DD VERF:JLM

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
647.7401 *647 7401* Upper Cutter Assembly		Manufactured	No				Each	0.0000		1		DAS 27 9-89	
647.7501 *647 7501* Lower Cutter Assembly		Manufactured	No				Each	0.0000		1		APR 16 2015	
647.1701 *647 1701* Skid Deflector Assembly		Manufactured	No				Each	2.0000		2		DAS 27 9-89	

Location

Loc Qty

Loc Code

CCK044

2

M130388

2

Each

14.0000

2

DAS
27

APR 16 2015

647.7702

647 7702

Strut Assembly

Manufactured

No

Location

Loc Qty

Loc Code

CCK083

14

92910

4

93194

2

M130388

8

Each

13.0000

2

DAS
27

APR 16 2015

647.7701

647 7701

Strut Assembly

Manufactured

No

Location

Loc Qty

Loc Code

CCK073

13

92909

2

93317

4

M130388

7

DAS
28
9-89

DAS
28
9-89

DAS
27
9-89

DAS
27
9-89

DAS
27
9-89

DAS
27
9-89

DAS
27
9-89

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date :	Step #:	QTY Effective :		MRB (QS1042) Approval	
Description Work Order Deviation		Disposition		Completed By	
				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY			
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
OTHER : ☐					

Picklist Print

Thursday, April 16, 2015 1:41:51 PM

Page 2

Work Order ID: 131589

131589

Parent Item: 647.7303

647 7303

Parent Item Name: EC135 Cable Cutters (Removable Provisions Only)

Start Date: 4/17/15

Required Date: 4/20/15

Start Qty: 1.00

Required Qty: 1.00

647.0112

Manufactured No

Each

243.0000

4

647 0112

Strut Bracket

DAS
28
9-89

Location

Loc Qty

Loc Code

CCK109

243

112215

42

122245

19

122871

52

123318

34

M130388

96

**

DAS

27

9-89

APR 17 2015

AN665-34R

Purchased

No

Each

16.0000

4

AN665-34R

Clevis

DAS
28
9-89

Location

Loc Qty

Loc Code

ST330

16

M130388

4

M131584

12

Each

480.0000

4

**

DAS

27

9-89

APR 17 2015

AN3-11A

Purchased

No

AN3-11A

Bolt

DAS
28
9-89

Location

Loc Qty

Loc Code

ST338a

480

m115457

6

m125709

470

m130388

4

DAS
27
9-89

APR 17 2015

Thursday, April 16, 2015 1:41:52 PM

Shop Packet Print

Page 2

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date :	Step #:	QTY Effective :		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition		Completed By	
				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY			
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐	No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐	Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐	Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐
OTHER : _____					

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS <table style="width:100%; border: none;"> <tr> <td style="border: none;">Skid-tube ☐</td> <td style="border: none;">Cross tube ☐</td> <td style="border: none;">Water Jet ☐</td> <td style="border: none;">Engineering ☐</td> </tr> <tr> <td style="border: none;">Machining ☐</td> <td style="border: none;">Small Fab ☐</td> <td style="border: none;">Prod. Eng. Coord. ☐</td> <td style="border: none;">Quality ☐</td> </tr> <tr> <td style="border: none;">Thermoforming ☐</td> <td style="border: none;">Finishing ☐</td> <td style="border: none;">Rec/Store/Packaging ☐</td> <td style="border: none;">Other ☐</td> </tr> <tr> <td style="border: none;">Large Fab ☐</td> <td style="border: none;">Composite ☐</td> <td style="border: none;">Supplier ☐</td> <td></td> </tr> </table>				Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐																																																
Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐																																																																	
Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐																																																																	
Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐																																																																	
Large Fab ☐	Composite ☐	Supplier ☐																																																																		
Date :	Step #:	QTY Effective :		MRB (QSI042) Approval																																																																
Description Work Order Deviation		Disposition		Completed By																																																																
				Lead hand / Supervisor Approval Verification																																																																
				QC / QA Coordinator Approval																																																																
Root Cause <table style="width:100%; border: none;"> <tr> <td style="border: none;">Environment ☐</td> <td style="border: none;">No Re-verification ☐</td> </tr> <tr> <td style="border: none;">Design ☐</td> <td style="border: none;">Operator ☐</td> </tr> <tr> <td style="border: none;">Doc/Data ☐</td> <td style="border: none;">Offset/Setup ☐</td> </tr> <tr> <td style="border: none;">Equip/Tooling ☐</td> <td style="border: none;">Supplier ☐</td> </tr> <tr> <td style="border: none;">Handling/Pre ☐</td> <td style="border: none;">Training ☐</td> </tr> <tr> <td style="border: none;">Material ☐</td> <td style="border: none;">Use for Testing ☐</td> </tr> <tr> <td style="border: none;">Internal Transport ☐</td> <td style="border: none;">Poor Information ☐</td> </tr> <tr> <td style="border: none;">Tribal Knowledge ☐</td> <td style="border: none;">Rushing ☐</td> </tr> <tr> <td style="border: none;">LOA ☐</td> <td style="border: none;">Product Improvement ☐</td> </tr> <tr> <td style="border: none;">Substation ☐</td> <td style="border: none;">Process Improvement ☐</td> </tr> <tr> <td style="border: none;">Past Expiry Date ☐</td> <td style="border: none;">Manufacturing Process ☐</td> </tr> <tr> <td style="border: none;">Misidentified ☐</td> <td style="border: none;">Past Due ☐</td> </tr> </table>		Environment ☐	No Re-verification ☐	Design ☐	Operator ☐	Doc/Data ☐	Offset/Setup ☐	Equip/Tooling ☐	Supplier ☐	Handling/Pre ☐	Training ☐	Material ☐	Use for Testing ☐	Internal Transport ☐	Poor Information ☐	Tribal Knowledge ☐	Rushing ☐	LOA ☐	Product Improvement ☐	Substation ☐	Process Improvement ☐	Past Expiry Date ☐	Manufacturing Process ☐	Misidentified ☐	Past Due ☐	FAULT CATEGORY <table style="width:100%; border: none;"> <tr> <td style="border: none;">Pressure/Forced ☐</td> <td style="border: none;">Temperature/Cure ☐</td> <td style="border: none;">Power Loss/Surge ☐</td> <td style="border: none;">Positioned Wrong ☐</td> </tr> <tr> <td style="border: none;">Bending ☐</td> <td style="border: none;">Set-up ☐</td> <td style="border: none;">Folio/Program ☐</td> <td style="border: none;">Outside Dimensions ☐</td> </tr> <tr> <td style="border: none;">Centre Not Concentric ☐</td> <td style="border: none;">BOM/Route ☐</td> <td style="border: none;">Grain ☐</td> <td style="border: none;">Over/Under tolerance ☐</td> </tr> <tr> <td style="border: none;">Cracks ☐</td> <td style="border: none;">Broken/Damage/Defect ☐</td> <td style="border: none;">Weld ☐</td> <td style="border: none;">Part Incorrect ☐</td> </tr> <tr> <td style="border: none;">Crimp/Kink/Ripple/Wave ☐</td> <td style="border: none;">Inspection Incomplete/Unqualified ☐</td> <td style="border: none;">Wrong Stock Pulled ☐</td> <td style="border: none;">Part Lost/Missing ☐</td> </tr> <tr> <td style="border: none;">Cuffs ☐</td> <td style="border: none;">Contamination ☐</td> <td style="border: none;">Out of Sequence ☐</td> <td style="border: none;">Part Moved ☐</td> </tr> <tr> <td style="border: none;">Crushing ☐</td> <td style="border: none;">Countersink ☐</td> <td style="border: none;">Off-set ☐</td> <td style="border: none;">Drawing ☐</td> </tr> <tr> <td style="border: none;">Heat Treat ☐</td> <td style="border: none;">Cut Too Short ☐</td> <td style="border: none;">Mislabeled ☐</td> <td style="border: none;">Finish ☐</td> </tr> <tr> <td style="border: none;">Wave/Twist in Tube ☐</td> <td style="border: none;">Instructions Incomplete/Unclear ☐</td> <td style="border: none;">Fit/Function ☐</td> <td style="border: none;">Misread ☐</td> </tr> <tr> <td style="border: none;">Marks/Chatter ☐</td> <td style="border: none;">Drill Holes ☐</td> <td style="border: none;">Misaligned/off center ☐</td> <td style="border: none;">Turning Sequence ☐</td> </tr> </table>			Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐
Environment ☐	No Re-verification ☐																																																																			
Design ☐	Operator ☐																																																																			
Doc/Data ☐	Offset/Setup ☐																																																																			
Equip/Tooling ☐	Supplier ☐																																																																			
Handling/Pre ☐	Training ☐																																																																			
Material ☐	Use for Testing ☐																																																																			
Internal Transport ☐	Poor Information ☐																																																																			
Tribal Knowledge ☐	Rushing ☐																																																																			
LOA ☐	Product Improvement ☐																																																																			
Substation ☐	Process Improvement ☐																																																																			
Past Expiry Date ☐	Manufacturing Process ☐																																																																			
Misidentified ☐	Past Due ☐																																																																			
Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐																																																																	
Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐																																																																	
Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐																																																																	
Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐																																																																	
Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐																																																																	
Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐																																																																	
Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐																																																																	
Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐																																																																	
Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐																																																																	
Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐																																																																	
OTHER :																																																																				

Picklist Print

Thursday, April 16, 2015 1:41:52 PM

Page 4

Work Order ID: 131589

131589

Parent Item: 647.7303

647 7303

Parent Item Name: EC135 Cable Cutters (Removable Provisions Only)

Start Date: 4/17/15

Required Date: 4/20/15

Start Qty: 1.00

Required Qty: 1.00

MS21042-08

MS21042L08

Purchased

No

Each

33.0000

6

MS21042-08

USE MS21042L08

**

13/3/7

DAS

27

9-89

APR 17 2015

Location

Loc Qty

Loc Code

ST304

25

122815

25

ST306

8

123185

1

m130388

7

Each

573.0000

4

MS21042-3

MS21042L3

Purchased

No

MS21042-3

Nut / use MS21042L3

**

DAS

27

9-89

APR 17 2015

Location

Loc Qty

Loc Code

CA

501

M129682

501

ST305

72

M128770

12

M129541

26

M130388

34

MB/624

9

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date :	Step #:	QTY Effective :		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition		Completed By	
				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY			
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐	No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐	Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐	Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐
OTHER : ☐					

Picklist Print

Thursday, April 16, 2015 1:41:52 PM

Page 5

Work Order ID: 131589

131589

Parent Item: 647.7303

647 7303

Parent Item Name: EC135 Cable Cutters (Removable Provisions Only)

Start Date: 4/17/15

Required Date: 4/20/15

Start Qty: 1.00

Required Qty: 1.00

MS21042L4

Purchased

No

Each

1,445.000

8

MS21042L 4

Locknut

DAS
28
9-89

Location

Loc Qty

Loc Code

FP001

42

m124231

42

GA

574

m127813

574

ST260a

286

m130799

56

m131803

230

ST305

543

426

426

m128300

8

m130922

97

m131618

12

**

DAS
27
9-89

APR 17 2015

AN316C4R

Purchased

No

Each

61.0000

4

AN316C4R

NUT

DAS
28
9-89

Location

Loc Qty

Loc Code

ST331

61

m124561

16

m127584

8

m127618

20

m127838

13

m130388

4

**

DAS
27
9-89

APR 17 2015

Thursday, April 16, 2015 1:41:52 PM

Shop Packet Print

Page 5

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval		
Description Work Order Deviation				Disposition					
Root Cause		FAULT CATEGORY							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐				
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐				
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐				
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐				
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐	OTHER :							
Misidentified ☐	Past Due ☐								

Picklist Print

Thursday, April 16, 2015 1:41:52 PM

Page 6

Work Order ID: 131589

131589

Parent Item: 647.7303

647 7303

Parent Item Name: EC135 Cable Cutters (Removable Provisions Only)

Start Date: 4/17/15

Required Date: 4/20/15

Start Qty: 1.00

Required Qty: 1.00

MS27039-08-13

Purchased

No

Each

457.0000

4

MS27039-08-13

Screw

DAS

27

9-89



Location

Loc Qty

Loc Code

ST273A

346

124326

346

ST281

111

123352

33

4067

69

M123185

5

M130388

4

DAS

28

9-89

4

MS27039-08-16

Purchased

No

Each

112.0000

2

MS27039-08-16

SCREW PAN HD

DAS

27

9-89



Location

Loc Qty

Loc Code

CA

48

112466

48

ST281

64

M130388

64

DAS

28

9-89

2

NAS1149FN832P

Purchased

No

Each

3,630.000

12

NAS1149FN832P

Washer

DAS

27

9-89



Location

Loc Qty

Loc Code

ST260a

1954

125268

1954

st268

1676

125268

755

M130388

921

DAS

28

9-89

APR 17 2015

12

Thursday, April 16, 2015 1:41:53 PM

Shop Packet Print

Page 6

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date :	Step #:	QTY Effective :		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition		Completed By	
				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY			
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
OTHER : ☐					

Picklist Print

Thursday, April 16, 2015 1:41:53 PM

Page 7

Work Order ID: 131589

131589

Parent Item: 647.7303

647 7303

Parent Item Name: EC135 Cable Cutters (Removable Provisions Only)

Start Date: 4/17/15

Required Date: 4/20/15

Start Qty: 1.00

Required Qty: 1.00

NAS1149F0332P

Purchased

No

Each

3,888.000

12

NAS1149F0332P

Washer

DAS

27

9-89

APR 17 2015

DAS

28

9-89

Location

Loc Qty

Loc Code

GA

222

122063

222

ST260a

2586

m128401

6

m131026

80

m131697

2500

st268

1080

123900

460

m130325

534

m130388

86

12

NAS1149F0432P

Purchased

No

Each

1,228.000

8

NAS1149F0432P

WASHER

DAS

27

9-89

APR 17 2015

DAS

28

9-89

Location

Loc Qty

Loc Code

ST260a

1000

M131697

1000

st268

228

M128995

63

M130388

8

M131340

157

9

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date : _____	Step #: _____	QTY Effective : _____		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition		Completed By	
				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY			
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐	No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐	Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐	Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐
OTHER : _____					

Picklist Print

Thursday, April 16, 2015 1:41:53 PM

Page 8

Work Order ID: 131589

131589

Parent Item: 647.7303

647 7303

Parent Item Name: EC135 Cable Cutters (Removable Provisions Only)

Start Date: 4/17/15

Required Date: 4/20/15

Start Qty: 1.00

Required Qty: 1.00

601.2045 Purchased No

Each 22.0000 1

601 2045

RTV (LOCTITE 598)

DAS
27
9-89

DAS
27
9-89

APR 16 2015

DAS
28
9-89

Location

Loc Qty

Loc Code

CCK096

5

m130388

1

m131142

4

cck15a

17

m131311

17

Each

1,297.000

8

DAS
27
9-89

DAS
27
9-89

APR 17 2015

NAS1149F0463P

Purchased

No

NAS1149F0463P

Washer

DAS
28
9-89

Location

Loc Qty

Loc Code

ST260a

986

m127832

986

st268

311

m127832

303

m130388

8

8

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :				MRB (QSI042) Approval	
Description Work Order Deviation				Disposition				Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY							
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐	No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐	Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐	Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐	OTHER : ☐			

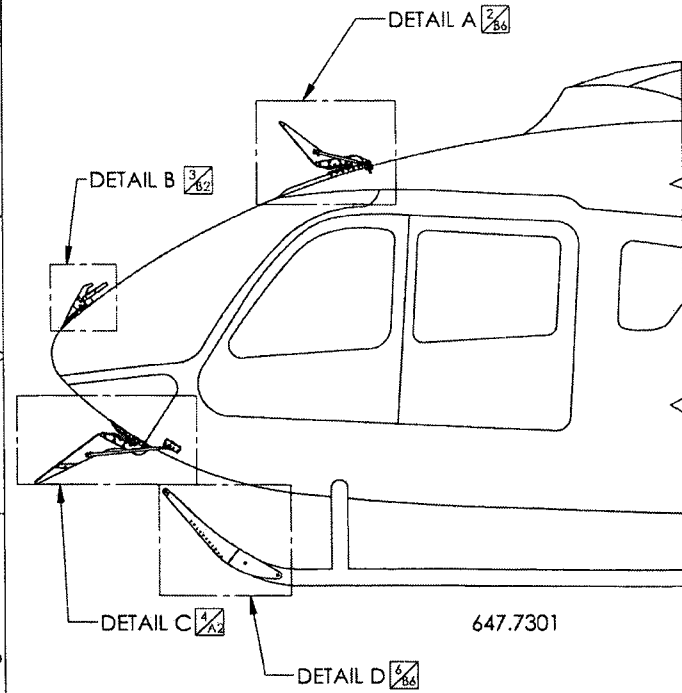
REF. ONLY

DAS
28
9-89

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF APICAL INDUSTRIES. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF APICAL INDUSTRIES IS PROHIBITED.

NOTES: UNLESS OTHERWISE SPECIFIED

- 1 AFTER INSTALLATION, APPLY F/N 90 A/R TO FILL GAPS AND FILLET EDGES.
- 2 APPLY F/N 91 TO FAYING SURFACES.
- 3 AT CUSTOMERS OPTION, INSTALL F/N 92 BY MATCH DRILLING ONTO F/N 1 OR F/N 2.
- 4 MATCH DRILL HOLES THROUGH F/N 26 AND FUSELAGE.
- 5 SHIM GAP BETWEEN F/N 1 & 26 AS NEEDED.
- 6 AT CUSTOMERS OPTION, INSTALL F/N 101 BY MATCH DRILLING ONTO F/N 1.



UNINCORPORATED ECN(S)

03044

		REF	100	647.5701	GPS MOUNT KIT	
	24	24	99	601.3213	CHERRY RIVET	CR3213-4-4
	8	8	98	601.3214	CHERRY RIVET	CR3213-5-3
	4	4	97	601.3212	CHERRY RIVET	CR3213-4-3
8		8	96	601.1097	WASHER	HA31145704GSP
	1	1	95	647.7919	SHIM	
	1	1	94	600.0990	MAGNOBOND 6398 PART	
	1	1	93	600.0991	MAGNOBOND 6398 PART	
		REF	92	647.5701	GPS MOUNT KIT	
1		1	91	601.2045	RIV	LOCITE 398
	1	1	90	600.1012	SEALANT	PP-1455 CLASS B
	3	3	89	601.2375	WASHER	
	4	4	88	601.3126	WASHER	NA3114910532P
8		8	87	601.2638	WASHER	NA311490432P
12	74	86	86	601.1607	WASHER	NA311490332P
12	2	14	85	601.2764	WASHER	NA311497NA332P
	2	2	84	601.3136	CHERRY RIVET	CR3217-5-5
	8	8	83	601.3215	CHERRY RIVET	CR32152-5-3
	8	8	82	601.3216	CHERRY RIVET	CR32152-4-3
	12	12	81	601.2481	CHERRY RIVET	CR3213-5-4
	16	16	98	601.2020	CHERRY RIVET	CR3213-5-3
	17	17	79	601.2991	CHERRY RIVET	CR3213-4-6
	8	8	78	601.1183	CHERRY RIVET	CR3213-4-5
	16	16	99	601.1915	CHERRY RIVET	CR3213-4-4
	24	24	97	601.0790	CHERRY RIVET	CR3213-4-3
	4	4	75	601.1604	CHERRY RIVET	CR3213-4-2
	4	4	74	601.1983	NUTPLATE RIVET	CCP27455-3-03
	24	24	73	601.2207	NUTPLATE RIVET	CCP26455-3-03
	3	3	72	601.2999	SCREW	
	6	6	71	601.2829	SCREW	MS24694554
	2	2	70	601.1954	SCREW	MS27039-1-17
	4	4	69	601.2637	SCREW	MS27039-1-16
	1	1	68	601.3012	SCREW	MS27039-1-15
	4	4	67	601.1622	SCREW	MS27039-1-14
	2	2	66	601.1953	SCREW	MS27039-1-12
	6	6	65	601.1365	SCREW	MS27039-1-10
	12	12	64	601.3069	SCREW	MS27039-1-09
	3	3	63	601.2198	SCREW	MS27039-1-07
2		2	62	601.3137	SCREW	MS27039-0816
4		4	61	601.2988	SCREW	MS27039-0913
	1	1	60	601.2525	SCREW	MS27039-0807
	4	4	59	601.3127	LOCKNUT	MS21042L5
	2	2	58	647.8512	INSERT	
	4	4	57	647.8511	INSERT	
	19	19	56	647.8510	INSERT	
4		4	55	601.3128	NUT	AN314C4R
8		8	54	601.3209	LOCKNUT	MS21042L4
4	30	34	53	601.2943	LOCKNUT	MS21042-3
6	1	7	52	601.2973	LOCKNUT	MS21042408
4		4	51	601.3002	BOLT	HA56604-65
4		4	50	601.3130	BOLT	HA56603-16
4		4	49	601.1500	BOLT	HA56603-12
4		4	48	601.2669	BOLT	AN4C7A
	1	1	47	601.1324	BOLT	AN4C65A
4		4	46	601.2826	BOLT	AN3-11A
	2	2	45	601.2823	BOLT	AN3-4A
	12	12	44	600.0795	NUTPLATE	MS21047-3
	2	2	43	601.3004	CAMLOC STUD	
7303	7302	7301	FIND	PART #	DESCRIPTION	MAT'L
						SPCL

REV	DESCRIPTION	DATE	APPROVED
1	LATE PROTOTYPE REVISED: PPA		N/C
2	INITIAL RELEASE	01/13/89	P. BRAVO
3	INCORPORATED ECN(S) 0290, 0300, 0304, 0306	02/16/91	P. BRAVO

QTY	PART #	DESCRIPTION	MAT'L	SPEC
2	2	42	601.3005	CAMLOC RETAINER
2	2	41	601.3006	CAMLOC RECEPTACLE
4	4	40	601.3119	CLEVIS
2	2	39	601.3120	EYE BOLT
2	2	38	601.3121	EYE BOLT
1.5FT	1.5FT	37	601.3007	GROMMET
1.5FT	1.5FT	36	601.3011	P-SEAL
1	1	35	647.3201	GROUNDING CABLE ASSY
4	4	34	647.2511	NUT
4	4	33	647.2510	SLEEVE
13	13	32	647.1812	SHIM
2	2	31	647.1811	SPACER
1	1	30	647.1602	DOUBLER ASSY
1	1	29	647.1914	BRACKET
1	1	28	647.7822	EYE BOLT FITTING RH
1	1	27	647.7821	EYE BOLT FITTING LH
1	1	26	647.7818	MOUNTING CHANNEL
1	1	25	647.7820	CROSS BRACKET AFT
1	1	24	647.7819	CROSS BRACKET FWD
1	1	23	647.7918	BRACKET
1	1	22	647.7917	BRACKET
2	2	21	647.7916	BRACKET
1	1	20	647.7915	BRACKET
1	1	19	647.7914	BRACKET
2	2	18	647.7913	DOUBLER
4	4	17	647.7912	CLIP
2	2	16	647.7911	BRACKET
2	2	15	647.7910	ANGLE BRACKET
4	4	14	647.0112	STRUT BRACKET
1	1	13	647.1810	NOSE DOOR DOUBLER
1	1	12	647.1818	NOSE DOOR SPACER
2	2	11	647.7701	STRUT ASSY
2	2	10	647.7702	STRUT ASSY
1	1	9	647.1815	GUSSET, RH
1	1	8	647.1814	GUSSET, LH
1	1	7	647.1915	SUPPORT ANGLE
1	1	6	647.1913	TEE
1	1	5	647.1610	WIPER DEFLECTOR, FWD
1	1	4	647.1601	WIPER DEFLECTOR ASSY, AFT
2	2	3	647.1701	SKID DEFLECTOR ASSY
1	1	2	647.7501	LOWER CUTTER ASSY
1	1	1	647.7401	UPPER CUTTER ASSY
			647.7303	REMOVABLE PROVISIONS KIT
			647.7302	FIXED PROVISIONS KIT
			647.7301	EC135 CABLE CUTTERS KIT

ORIGINAL DATE 01/13/89	DATE OF REVISION	REVISION 1
DRAWN BY A. GEM	CHECKED BY A. GEM	DATE 01/13/89
APPROVED BY P. BRAVO		
DATE 02/16/91		
UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES 1/16 0.0625 1/16 0.0625 1/16 0.0625		

APICAL INDUSTRIES	
2608 TEMPLE HEIGHTS DR. OCLANDSIDE, CA. 92056-3512 (760)724-5300	
EC135 CABLE CUTTERS KIT	
SCALE: NONE	SHEET 1 OF 6